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Material Safety Data Sheet

MSDS No.: 021-000353
Date : 6 January, 2003

SECTION 1 PRODUCT IDENTIFICATION

Product Name : Toner, Toner Cartridge UG-3350 for Panasonic Facsimile machines Models UF-585, UF-595, UF-590 and DX-600

Product No. : UG-3350 Toner

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS (Common Name)	CAS #	PROPORTION (% by wt.)	OSHA PEL	ACGIH TLV	OTHER LIMITS
• Styrene acrylate copolymer		> 56.0	None established	None established	None
• Iron oxide		< 40.0	None established	None established	None
• Polypropylene		< 4.0	None established	None established	None

SECTION 3 HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW : Fine black powder.

POTENTIAL HEALTH EFFECTS:

EYE EFFECTS : Mild irritant.

SKIN EFFECTS : None currently known.

INGESTION EFFECTS : May be harmful if swallowed.

INHALATION EFFECTS : Minimal respiratory tract irritation may occur as with exposure to large amounts of any non-toxic dust. May cause cough and rise phlegm.

CHRONIC EFFECTS : Not aware of any health effects associated with toner under its intended use.

CARCINOGENICITY : No NTP, No IARC Monographs, No OSHA regulated.

SECTION 4 FIRST AID MEASURES

EYE CONTACT : Flush with enough water.

SKIN CONTACT : Wash with soap and water.

INHALATION : Remove to fresh air.

IF SWALLOWED : Dilute stomach contents with several glasses of water.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT : Not applicable.

FLAMMABLE LIMITS : Not applicable.

EXTINGUISHING MEDIA : Water fog, dry chemical, foam or CO_2.

SECTION 6 ACCIDENTIAL RELEASE MEASURES

METHOD FOR CLEANING UP : Sweep up or clean up with vacuum cleaner.

SECTION 7 HANDLING AND STORAGE

HANDLING : None required when used as intended.

STORAGE : None required when used as intended.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS : TLV=10mg/m^3 (as total dust/ACGIH)

ENGINEERING CONTROLS : None required under normal use.

VENTILATION : None required under normal use.

RESPRIRATORY PROTECTION : None required under normal use.

SKIN PROTECTION : None required under normal use.

EYE PROTECTION : None required under normal use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :	Black fine powder
ODOR :	None
pH :	Not applicable
VAPOR PRESSURE (mg Hg.) :	Not applicable
VAPOR DENSITY (AIR = 1) :	Not applicable
EVAPORATION RATE :	Not applicable
BOILING POINT (°C) :	Not applicable
MELTING POINT (°C) :	No data available
SOLUBILITY IN WATER :	Negligible
SPECIFIC GRAVITY (H_2O=1) :	1.6

SECTION 10 STABILITY AND REACTIVITY

STABILITY :	This is a stable product.
INCOMPATIBILITY :	None
HAZARDOUS DECOMPOSITION :	None
HAZARDOUS POLYMERIZATION :	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Mutagenicity:	Negative in the Ames Test
Carcinogenicity:	No data available
Chronic Effects:	No data available

SECTION 12 ECOLOGICAL INFORMATION

No data available.

SECTION 13 DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD : Dispose of in accordance with federal, state and local environmental regulations.

SECTION 14 TRANSPORT INFORMATION

UN CLASS : None allocated.

SECTION 15 REGULATORY INFORMATION

USA Information:
All chemical substances in this product comply with all applicable rules or orders under TSCA.

Australia Information:
Not classified as hazardous according to criteria of NOHSC.

SECTION 16 OTHER INFORMATION

NFPA rating : Health = 1, Flammability = 1, Reactivity = 0

REFERENCES:
H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.Mackenzie, P.Morrow, U.Mohr, S.Takenaka and R.Mermelstein (1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions.